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Date: Mon, 2 Jun 2003 19:03:12 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2939

QRP-L Digest 2939

Topics covered in this issue include:

- 1) [151634] Workman mobile whip?
by <n2go@arrl.net>
- 2) [151635] FOX Lloyd K3ESE heard
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 3) [151636] FOX Found one
by "Karl F. Larsen" <k5di@zianet.com>
- 4) [151637] RE: 4W3DX and receivers
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 5) [151638] RE: CQ FOX, today!
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 6) [151639] Reading the comics
by "pschweit" <pschweit@mninter.net>
- 7) [151640] Re: Innovative antennas
by "James R. Duffey" <JamesDuffey@comcast.net>
- 8) [151641] Re: Manassas Hamfest
by "James R. Duffey" <JamesDuffey@comcast.net>
- 9) [151642] White Mtns Hamfest - June 7
by Brian Short <bshort4@cox.net>
- 10) [151643] I saw the light: Getting religion on SMT
by "Nick Kennedy" <nkennedy@tcainternet.com>
- 11) [151644] Re: [Elecrafft] FOX Jim N0UR ~14.057
by "George, W5YR" <w5yr@att.net>
- 12) [151645] Re: NCDXF Beacon - 20 meters
by "George, W5YR" <w5yr@att.net>
- 13) [151646] Rock-Mite-RTTY monthly report...
by "Bill, N4QA" <n4qa@hotmail.com>
- 14) [151647] FS: Shack cleanout items
by Rick McKee <kc8aon@juno.com>
- 15) [151648] Re: NiMH AA cells mAh Tests and Maha C-401FS Charger
test/review
by Larry Cahoon <lejek@erols.com>
- 16) [151649] Re: Manassas Hamfest
by Pete Burbank <plburbank@earthlink.net>
- 17) [151650] UDPADTE: 'Tennna Dipper"
by "Steven Weber" <kd1jv@moose.ncia.net>
- 18) [151651] WTB: OHR-100A, 20m
by <genewill@ordata.com>

- 19) [151652] Solar Charging Question - Part 2
by Mark Schoonover <schoon@amgt.com>
- 20) [151653] FOX K3ESE Log 1.0 1June03
by Lloyd Lachow <llachow@yahoo.com>
- 21) [151654] NorCal BLT Tuner
by "Lee Mairs" <lmairs@direcway.com>
- 22) [151655] NorCal 10th Anniversary Report (Long)
by "Doug Hendricks" <ki6ds@dospalos.org>
- 23) [151656] Re: Workman mobile whip?
by "Bill Jones" <kd7s@psnw.com>
- 24) [151657] 2 New NorCal Kits Announced
by "Doug Hendricks" <ki6ds@dospalos.org>
- 25) [151658] Re: I saw the light: Getting religion on SMT
by "Doug Hendricks" <ki6ds@dospalos.org>
- 26) [151659] DSPs
by Pete Burbank <plburbank@earthlink.net>
- 27) [151660] FS: Shack Cleaning
by "Kevin M., KC8SFJ" <adverseyaw@twmi.rr.com>
- 28) [151661] Spartan Sprint Tonight!
by "John Huffman" <hjohnc@core.com>
- 29) [151662] Re: NiMH AA cells mAh Tests and Maha C-401FS Chargertest/review
by "John O. Newell" <jnewell@attbi.com>
- 30) [151663] Thanks all who replied.Re; Stripping 4 conductor phone line...
by "Dean-NR2V/4" <nr2v@northnet.org>
- 31) [151664] Re: Solar Charging Question - Part 2
by John Kuklewicz N7ZN <kukl@cybrquest.com>
- 32) [151665] Re: I saw the light: Getting religion on SMT
by David Hinerman <WD8CIV@worldnet.att.net>
- 33) [151666] RE: 4W3DX and receivers
by Dale Botkin <dale@botkin.org>
- 34) [151667] Re: 4W3DX and receivers
by Ed Lawson <k1vp@grizzly.com>
- 35) [151668] [OT] how many achieved QRP DXCC ?
by Ken Hopper N9VV <n9vv@wideopenwest.com>
- 36) [151669] Important announcement for QRP
by "Doug Hendricks" <ki6ds@dph.dpol.net>
- 37) [151670] Re: Solar Charging Question - Part 2
by "cal.jsi" <cal.jsi@verizon.net>
- 38) [151671] Re: Manassas Hamfest
by William R Colbert <w5xe@juno.com>
- 39) [151672] Camping Trip - Radio Demonstration
by Jerry Haigwood <w5jh@swlink.net>
- 40) [151673] Maha Energy Corp. thread
by Chuck Adams <k7qo@earthlink.net>
- 41) [151674] Re: Important announcement for QRP
by Ed Lawson <k1vp@grizzly.com>
- 42) [151675] RE: Important announcement for QRP
by "Boulineau, Lee" <lee.boulineau@attws.com>

- 43) [151676] HF mixer module
by "Leon Heller" <leon_heller@hotmail.com>
- 44) [151677] RE: Important announcement for QRP
by "John_Evans" <jaevals@mail.codenet.net>
- 45) [151678] Re: I saw the light: Getting religion on SMT
by "Steven Weber" <kd1jv@moose.ncia.net>
- 46) [151679] Re: I saw the light: Getting religion on SMT
by David Hinerman <WD8CIV@worldnet.att.net>
- 47) [151680] RE: Solar Charging Question - Part 2
by Mark Schoonover <schoon@amgt.com>
- 48) [151681] RE: Solar Charging Question - Part 2
by Ed Tanton <n4xy@earthlink.net>
- 49) [151682] Spam & qrp list
by "k7prz" <k7prz88@prodigy.net>
- 50) [151683] FS: Binaural RX, 100W Amp
by "Alan Fryer" <N3BJ@hotmail.com>
- 51) [151684] FOX log N0UR
by "Jim N0UR" <n0ur@attbi.com>
- 52) [151685] QRP+ FS
by Bob cutter <ki0g@yahoo.com>
- 53) [151686] Re: Spam
by "Doug Hendricks" <ki6ds@dph.dpol.net>

Date: Sun, 1 Jun 2003 18:22:49 -0400 (EDT)
From: <n2go@arrl.net>
To: <qrp-l@Lehigh.EDU>
Subject: [151634] Workman mobile whip?
Message-ID: <Pine.LNX.4.33.0306011819110.2364-1000000@valhalla.v>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

At the Rochester hamfest I noticed a cheap mobile antenna.

http://www.wb0w.com/Mobile_Acc/IH_antennas.htm

The price seemed reasonable. He also had a mount for two identical whips to make a dipole...

Anyone use one of these?

73,

Jim n2go

Date: Sun, 1 Jun 2003 17:29:57 -0500
From: "Doc K0EVZ" <dock0evz@earthlink.net>
To: "qrp-l reflector" <qrp-l@lehigh.edu>,
"Elecrafft " <elecrafft@mailman.qth.net>
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>
Subject: [151635] FOX Lloyd K3ESE heard
Message-ID: <412003601222957509@earthlink.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Gang:

Heard FOX Lloyd K3ESE at 2206 about 559 here in Bismarck. He was right on 14.061.2 on the K2. Pretty good pileup after him!

Sadly, I am not hearing Jim at all, though a few in the pileup. The hunters seem centred on 14.057 or so. Hopefully Jim will turn up just a kHz or lower. Fingers crossed here.

73,
--Doc/K0EVZ

Date: Sun, 1 Jun 2003 17:01:49 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: qrp-l@lehigh.edu
Subject: [151636] FOX Found one
Message-ID: <Pine.LNX.4.44.0306011658300.10707-1000000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I looked below 14.060 and found Jim working guys. I turned the beam just a bit more North and he peaked up on the main beam. Called once and Jim heard me and we had a fine contact.

I heard Florida work the other Fox but I never heard even an esp signal from him. So done.

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Sun, 1 Jun 2003 18:13:7 -0500
From: "Doc K0EVZ" <dock0evz@earthlink.net>
To: "Ed Lawson" <k1vp@grizzly.com>, "qrp-l reflector" <qrp-l@lehigh.edu>
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>
Subject: [151637] RE: 4W3DX and receivers
Message-ID: <41200360123137703@earthlink.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Ed and Gang:

Let me chime in re the OHR500 = it is a fabulous rig for QRP. I never cease to be amazed by the ultra-quiet, sensitive receiver. Signals seem to just leap up from a whisper-quiet background. Reminds me of watching the starry sky on a clear night here in Bismarck, ND = the stars are bright and clear, and the sky background is dark. The OHR series of receivers is like that, IMHO. Am constantly amazed by their performance. Often when there is a lot of QRN on some rigs, signals on the OHRs will be good copy.

Standard disclaimer = no connection with the company, but a long-term satisfied customer.

73,
--Doc/K0EVZ

> [Original Message]
> From: Ed Lawson <k1vp@grizzly.com>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Date: 5/31/2003 7:18:27 PM
> Subject: 4W3DX and receivers

>
>

> This morning I checked the cluster early and 4W3Dx was noted on 20M. Now Timor is not close to NH and he was weak with a howling mob of very strong signals after him up 3 to 8KC. With all the discussion about receivers recently and since I have three rigs switched to the same antenna, I tried an experiment. On the Icom 718 he was practically unreadable as the CW was distorted and very weak. Using the preamp just made things worse. On the PatComm 500 the signal was too weak to be readable until I turned the preamp on and then copy was pretty easy. Signal was clean and clear, but still weak. With the OHR 500, the signal was still weak, but better than

the other two and very readable. the CW sounded clean and distinct.
>
> I think the specs for these three radios on paper are rather similar, but they sound very different and they are quite different when it comes to weak signals.
>
> Don't know what it means from a technical viewpoint, but I think it does show that the kit rigs QRPers often use are very fine radios when it comes to ears. And some highly praised radios on eham are really not all that great when used to hear weak signal CW.
>
> Ed Lawson
> K1VP
> --

Date: Sun, 1 Jun 2003 18:22:38 -0500
From: "Doc K0EVZ" <dock0evz@earthlink.net>
To: "Jim N0UR" <n0ur@attbi.com>, "qrp-l reflector" <qrp-l@lehigh.edu>, "Elecrafft " <elecraft@mailman.qth.net>
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>
Subject: [151638] RE: CQ FOX, today!
Message-ID: <412003601232238434@earthlink.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Jim:

Wow, can hardly believe I just bagged you. Suddenly there you were, a good 579, ~14.058.8! Talk about good luck. Made my day fer sure. I hope everyone had as much fun hunting as I did this opening day.

73,
--Doc/K0EVZ

> [Original Message]
> From: Jim N0UR <n0ur@attbi.com>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Date: 6/1/2003 7:52:34 AM
> Subject: CQ FOX, today!

>
> Sorry for the late posting. Please try and get on this afternoon at 2200Z
> give the 20 meter summer fox hunt a try. Lloyd will be above 14.060, and
I
> will be taking the low road, below 14.060. I plan on listening up a kc or
> so to start.
>
> Should be a nice way to relax on a late Sunday afternoon, just before
firing
> up the grill, and a tall cool one in your hand.
>
> Please try to get on and keep Lloyd and me busy.
>
> 72's es GL
>
> Jim NOUR

Date: Sun, 1 Jun 2003 18:31:34 -0500
From: "pschweit" <pschweit@mninter.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [151639] Reading the comics
Message-ID: <000801c32895\$f1b33e80\$cce6add1@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I was quite surprised this morning while reading the comics.

There is a rather interesting frame in Beakman and Jax by Jok Church

The explanation of LED theory (quite in depth for the target audience)

I was under the impression that a photon was emitted when the energy of the exterior shell returned to a low energy state. The expalaination seems to indicate that the photon is emitted when the hole is filled thus raising the exterior shell was raised to a high energy state. Any comments on this?

Also ,,, this did appear in todays commics,, i saw it in the Minneapolis Star Tribune,,,

I wonder what other papers ran it this morning?

de KA0PGQ
Rob

Date: Sun, 01 Jun 2003 17:45:24 -0600
From: "James R. Duffey" <JamesDuffey@comcast.net>
To: QRP-L <qrp-l@lehigh.edu>, n0ew@arrl.net
Subject: [151640] Re: Innovative antennas
Message-ID: <BAFFEC34.7BA9%JamesDuffey@comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

This looks like a great idea for a QRP forum contest! Or maybe a qrp weekend contest. 20 M on a Saturday afternoon with an unconventional antenna. Sounds great. Maybe the next time that the Springfield group does this they can get people all over the country interested in it as an actiivty. - Dr. Megacycle KK6MC/5

James R. Duffey KK6MC/5
Cedar Crest NM 87009 DM65

Date: Sun, 01 Jun 2003 18:03:27 -0600
From: "James R. Duffey" <JamesDuffey@comcast.net>
To: kf4yyd@adelphia.net
Cc: QRP-L <qrp-l@lehigh.edu>
Subject: [151641] Re: Manassas Hamfest
Message-ID: <BAFFF06F.7BAB%JamesDuffey@comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

The Radio Shack DSP at \$12 is a good buy.

I have one that I use from time to time. I paid \$20 for mine.

It does not have a true noise reduction algorithm, instead it changes the frequency response of the filter.

It does a good job on CW of reducing the bandwidth. It has a fixed center frequency of 700 Hz. This is a problem if you want to use the narrow setting with a lower tone. I prefer 550 Hz, so the narrowest setting is not useful to me.

It is useful if the rig you are using it with has inadequate IF filtering. I find it very useful with my HTX-100 and Kenwood TS-9130, both of which do not have IF filters for CW.

I find that compared to a good analog CW filter, such as the DaTong FL-3, the Radio Shack DSP imparts a slight raspy undertone to the CW note. I did not notice this until I compared it to a good analog filter though. It does bother me now though.

It has a very nice 2.5 Watt audio amplifier built in. The audio from rigs that are a little anemic in the audio compartment will sound lots better with it. In my opinion, the audio amplifier alone is worth what you paid for it.

The RS DSP is not the greatest DSP or audio filter, but it is useful and a good buy if you can find one for \$20 or less, which is usually what they fetch. I hope that this helps. You got a good deal. - Dr. Megacycle KK6MC/5

James R. Duffey KK6MC/5
Cedar Crest NM 87009 DM65

Date: Sun, 1 Jun 2003 19:17:23 -0400
From: Brian Short <bshort4@cox.net>
To: Low Discussion <qrp-l@Lehigh.EDU>
Subject: [151642] White Mtns Hamfest - June 7
Message-ID: <3325E84E-9487-11D7-A36D-00306543B616@cox.net>
Mime-Version: 1.0 (Apple Message framework v552)
Content-Type: text/plain; charset=US-ASCII; format=flowed
Content-Transfer-Encoding: 7bit

See: <http://www.whitemtnhamfest.com/>

I know a number of QRP enthusiasts attend the annual Ft Tuthill hamfest held in Flagstaff in late July.

There ARE other hamfests in the state of Arizona, however.

In fact, June 7 is the date of the annual White Mountains Hamfest in Showlow, Az.

See: <http://www.whitemtnhamfest.com/>

I plan to attend unless something drastic happens and I suggest it to anyone else who can make it.

I am not affiliated in any way with the hamfest, but I do visit the area and I know folks were devastated last year by the fire and drought. I think it would be a great gesture to show up with lots of money for the fine hams of the area (...well...).

Anyway, there are great recreational facilities and plenty of forest areas which ARE open. See:

<http://www.k7on.com/photo/Views/Views.html>

<http://www.k7on.com/photo/Antennas/Antennas.html>

Maybe it will be a chance to meet some of the New Mexico boys, too :)

Be there or be square...

See: <http://www.whitemtnhamfest.com/>

Brian

--

See my web page: <http://www.k7on.com>

Date: Sun, 1 Jun 2003 20:22:04 -0700
From: "Nick Kennedy" <nkennedy@tcainternet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151643] I saw the light: Getting religion on SMT
Message-ID: <00b901c328b6\$23ed77b0\$0400000a@wa5bdu>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well, maybe not religion actually, but I AM starting to believe in things I can't see.

I've been thinking for a few years that I'm going to have to get going on this SMT thing, but putting it off out of fear of failure. I'd even been collecting the tiny parts, but seeing them just added to the intimidation

level.

At Arkiecon, the Fort Smith group had some board sets for the Trevor DDS for sale and I grabbed a set, which consists of two boards and a programmed microcontroller. (I call it the Trevor DDS because I never can remember his call--KG6CYN.) This post gives some of my observations about SMT and some about the AD9850 DDS unit.

Seeing the light:

Getting enough light--or the right light--has been a big issue for me as my eyes age. I find myself hauling stuff to the kitchen table to examine. There are four, 4-tube fluorescent fixtures above the kitchen table. In my ham shack, I have a high intensity desk lamp for close work. But not long ago, someone posted about a fluorescent lamp for craft & sewing use that he found to be good for close circuit work. I couldn't find one of those, but it did get me to thinking that a more diffuse source, as opposed to a point source, might be the key. So I hung a four foot shop light over my bench (finally ignoring my wife's protests about its looks), and things did improve a great deal. I also dragged out every magnifier in my arsenal--headbands, jeweler's loupes, hand held magnifying glasses.

Soldering the easy ones:

I started with the two-terminal parts, which turned out to be surprisingly easy. Let me back up first and mention that I bought the smallest gauge solder RS has, at 0.015 inch diameter. My procedure included tinning the board contact area first, even though this is a tinned board. Holding down the part, holding the iron, and holding the solder is a three handed operation. So with some solder already there, I was able to get down to two hands. Be cautious with that tinning--it's easy to create an enormous Mt. Everest of solder (from the SMT part's perspective) without really trying. Then I like to put a bit of flux on both the board's and the part's contacts. Helps the solder flow and also its sticky nature makes the part less likely to take flight in the event a mosquito sneezes somewhere in the room.

So now I put the part in place, hold it down with a toothpick or component lead (how archaic!), and melt the solder on one pad to get the part fixed in position. If it decides to slip and slide, you can still move it while you have only one end to reheat. Then you can do the other end and re-do the first end with more solder in hand, if needed. I don't worry excessively about the part being slightly cockeyed, if the connections look OK. You have to balance aesthetics against the possibility of applying too much heat against your desire for geometric perfection.

The 1206 parts are huge. The 805's aren't too bad. I did notice that it seems easier to substitute an 805 part on a pad designed for 1206 than

vice-versa. Something to think about if you're laying out your own boards. It didn't take too long before I was feeling pretty comfortable with the Rs and Cs. Even when I soldered one in the wrong place, lifting it out with two irons was simple. You do need a pretty firm rule about only one component out of its package at a time. Some are marked a bit cryptically, and some not at all. I like the transparent poly envelopes with a frosted white area to write values on, for storing my SMT parts.

Oh yeah, don't solder in any "tall" parts near SMT parts until the SMTs are in place. You need to be able to get at 'em from all directions.

Your worst nightmare--TSSOP:

OK, enough fun and games. I knew I had to tackle the dreaded SSOP packaged DDS chip sooner or later. Might as well see if I can actually get it installed before spending any more time or money on this project. The pin spacing on this chip is ungodly tiny. You can't see the individual pins with the naked eye. You can barely see 'em with a jeweler's loupe. Tin the pads beforehand, because adding solder with the chip in place can be a nightmare. Use flux, again in part for its stickiness. Make one of those "doofus" hold down thingys (see the NORCAL page). Line it up. Inspect it. Take a break. Inspect it again. Check pin 1's orientation for the 99th time. Get ready to solder, but if your hands are shaking from nervousness, put it off until tomorrow. OK, now or never. Tack one corner and see if things are still lined up. Then the opposite corner. But you still aren't home free. It's really hard to control the amount of solder applied, with desired amounts down to near zero. But a small excess quickly becomes an ocean and you've got a bridge. I'm not that adept with solder wick, but I did manage to clean up one or two bridges with it. I finally decided to rely mainly on the solder applied during tinning and take the risk of having not enough, rather than too much. After completing the soldering job, I used two straight pins held with alligator clip leads as ohmmeter probes, to check all adjacent pins for shorts. Things looked OK, but I couldn't be sure until I bought the rest of the parts, installed 'em, and fired it up.

Parts buying digression:

This isn't really a junkbox project, since the boards are precision engineered for certain parts. I rate projects by the number of suppliers required, envisioning a punitive handling charge and minimum order from each one. And I've tended to avoid the big houses for that reason. But after much internalized grouching, I saw that both Digi-Key and Mouser have pretty good policies for the buyers of small quantities. IIRC, Digi-Key has a \$25 minimum order and actual shipping costs only. They did have a few cases where they don't sell singles, but what the heck. Would I really want one resistor at 9.7 cents instead of getting ten for \$0.97 anyway? No. Mouser has no minimum order, but they

have a minimum of \$6 for S&H. Same as Dan's, so no big deal. I did run into one glitch--Digi-Key's computer ordering system refused to admit that they have the mechanical encoder used in the project. So I had to get a different one from Mouser. Beyond that, the one red herring was the MMIC and figuring out how to get just one from Mini-Circuits, leading to ...

MMIC digression:

I couldn't figure out how to purchase the single ERA-1SM MMIC amplifier from Mini-Circuits, so I started looking at surplus places like Dan's and Brad Thompson (AA1IP). When building a pre-engineered project like this DDS thing, it's fun to get as many data sheets as you can and try to learn something in the process. I hadn't fooled with MMIC amplifiers before, but I have wanted to learn about them. It's pretty interesting and seems fairly simple. You've got a specified gain, 50 ohm input lead, 50 ohm output, and power supply and ground leads. You select a "biasing" resistor for the supply lead based on the specified DC current from the data sheet and your power supply voltage. And you need a choke in series with that resistor, just like you do on the collector lead of a common emitter amplifier, to keep the RF from leaking out that path. The maximum usable frequency is typically 1 to 8 GHz, so no strain for HF. I just needed to match the gain (12 dB) and the maximum output before distortion, of the part Trevor used. Trevor says his DDS puts out 1 V p-p into 50 ohms. That's 4 dBm. So I found one likely suspect from the offerings in Brad's list. Brad has an HP (Aligent) MSA-0786 that has 12 dB gain and a 1 dB compression point of 5.5 dBm--just enough headroom with a bit to spare, at 50 cents. And the pinout is the same. (Probably standard.) So I did get the pleasure of making one design decision, however small, for my own version of the project. And next time I need some gain with 50/50 impedance, I'll have another trick in the bag.

Finishing & firing it up:

This is a nicely engineered design, with three boards (counting the LCD display) that plug together in a stack. But it's no Heathkit and you've kinda got to study the photos on Trevor's site to figure out where to put pin headers, where sockets, and which way they point.

[BTW, Trevor's site: http://www.qsl.net/kg6cyn/DDS_Project.htm]

I plugged the things together, less the switches and encoder, and fired it up. The display said 40.000 MHz and my counter said 46.102 MHz, which is where I heard it in the receiver. Hmmm ... The sine wave looked good on the scope though, even at such a high frequency. Turns out it doesn't really initialize until you have some switch action, so I wired them in and dialed up a frequency. Now everything matches. The LCD display reads about 30 Hz below my FT-1000's reading, but I'm not going to say which (if either) is correct. I'd say that's pretty darn close. I am also getting some glitches and sometimes no control at all out of the rotary encoder. Maybe because I

bought a different one than the one specified. That will require further investigation.

This is a nice frequency generator. It can be a useful for testing crystals and filters, and/or it can be the heart of a transceiver. But that's not all you get! Supposedly, Trevor has incorporated the ability to program the microcontroller (AT89S8252) in circuit, from the PC. And since you can unplug its board from the DDS, you could use it in other ways. I hope to investigate that. This particular chip might rival the one in the NJQRP package in some ways. It is available in a DIP package, which is a big plus. But it doesn't have built in ADC, which is a big advantage of the Motorola chip as I see it.

Homebrew SMT boards?

Now that I'm an instant expert on SMT, I'm thinking I should try doing my own board. The best thing, other than compactness and parts availability, is not having to drill holes. It's Manhattan without the pads. I'm trying out the Eagle limited freeware version recommended by Trevor. But the artwork isn't the hard part, it's how to transfer it to the board. Iron on transfer? Photo-resist process? That homemade mucilage & paper approach by WD8CIV looks interesting too. Stay tuned. Or tell me what to use.

Anyone still awake and reading? To quote Porky Pig ... uh budea, budea ... that's all folks,

72--Nick, WA5BDU

Nick Kennedy, WA5BDU
Russellville, Arkansas
<http://www.tcainternet.com/wa5bdu/>

Date: Sun, 1 Jun 2003 19:21:54 -0500
From: "George, W5YR" <w5yr@att.net>
To: <dock0evz@earthlink.net>, "qrp-l reflector" <qrp-l@lehigh.edu>, "Elecrafft " <elecrafft@mailman.qth.net>
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>
Subject: [151644] Re: [Elecrafft] FOX Jim N0UR ~14.057
Message-ID: <017e01c3289c\$f9691ad0\$0401a8c0@PS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

And, man, Doc, were you ever loud!! I was surprised that Jim heard me with

you in there! <:}

Actually, I was giving you unfair competition since I was working Jim for insurance. I worked him at 2205 but the CHN guys came on and wiped out his acknowledgement to my exchange so I didn't know if I had a pelt or not. Finally got him again around 2243 or so and he confirmed "dupe."

So, 2/2 at this end and off to a good start. I haven't checked with the rest of the NE-TX Tornados team but I think that most of us got our Clean Sweeps to start the Summer Hunts.

Thanks again for your efforts and those of the committee in making these Hunts possible.

73/72, George

Amateur Radio W5YR - the Yellow Rose of Texas

Fairview, TX 30 mi NE of Dallas in Collin county EM13QE

"In the 57th year and it just keeps getting better!"

<mailto:w5yr@att.net>

----- Original Message -----

From: "Doc K0EVZ" <dock0evz@earthlink.net>

To: "qrp-l reflector" <qrp-l@Lehigh.edu>; "Elecraft "
<elecraft@mailman.qth.net>

Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>

Sent: Sunday, June 01, 2003 5:46 PM

Subject: [Elecraft] FOX Jim N0UR ~14.057

> Gang:

>

> Well, I heard Da FOX Jim N0UR just for a second at 2243, ~14.057 on the K2.

> He was about 559, but QSB almost immediately pulled his signal down.

> Anyway, maybe there is hope for another FOX pelt today. Oh, I heard George

> W5YR working him just now, and George was 589.

>

> 73,

> --Doc/K0EVZ

>

>

>

>
>
>
>
>
> -----
> Elecraft mailing list: Elecraft@mailman.qth.net
> You must be a list member to post to the list.
> Postings must be plain text (no HTML or attachments).
> See: <http://mailman.qth.net/mailman/listinfo/elecraft>
> Elecraft Web Page: <http://www.elecraft.com>

Date: Sun, 1 Jun 2003 19:28:52 -0500
From: "George, W5YR" <w5yr@att.net>
To: <k5di@zianet.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [151645] Re: NCDXF Beacon - 20 meters
Message-ID: <01b501c3289d\$f20ef970\$0401a8c0@PS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi, Karl

2/2 from North Texas . . . sigs were up and down but mostly up and good copy on both Foxii around 2245 or so. Think all our team members got Clean Sweeps but not sure about one.

Don't let those predictions keep you from trying! After all they are only predictions . . .

And one other note: sometimes a lower wire can do a better job than that big high beam - worth trying! <:}

73/72, George
Amateur Radio W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13QE
"In the 57th year and it just keeps getting better!"
<mailto:w5yr@att.net>

----- Original Message -----

From: "Karl F. Larsen" <k5di@zianet.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Sunday, June 01, 2003 3:45 PM
Subject: NCDXF Beacon - 20 meters

>
> I put my 817 in cw on 14.100 MHz and with my TH6DXX Beam at 60
> feet pointed NE, I can copy one beacon, 4U1UN in NYC. I do hear others
> but they are too weak to get a call sign.
>
> WWV is 113 A=20 and K=3 which to ME means the radio conditions
> are BAD but have been worse in the recent past. The A was 46 last week
> and the k was 7!
>
> I can't wait for the old sunspot minimum when the flux is 90 A=3
> and K=1. Conditions are not good but the bands work like they should.
>
> My prediction for the Fox Hunt is simple: a very few will have
> propagation to either Fox, and if you don't you will hear ZIP.
>
>
> --
>
> - Karl Larsen k5di Las Cruces, NM Az ScQRPions -
>

Date: Sun, 01 Jun 2003 20:44:38 -0400
From: "Bill, N4QA" <n4qa@hotmail.com>
To: qrp-1@lehigh.edu
Subject: [151646] Rock-Mite-RTTY monthly report...
Message-ID: <BAY1-F13oWsU3ju4TYD00022c24@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

01 June 2003

Only two new contacts since my last report...but those netted a new country
and a new state.
Keeping a list (separate from my log) of contacts within the 'Of Rock-Mites
and RTTY' file beginning at:

<http://www.qsl.net/n4qa/rockrtty/rockrtty.html>

73.

Bill, N4QA

Tired of spam? Get advanced junk mail protection with MSN 8.
<http://join.msn.com/?page=features/junkmail>

Date: Sun, 1 Jun 2003 21:09:34 -0400
From: Rick McKee <kc8aon@juno.com>
To: fpqrp-1@mpna.com, qrp-1@Lehigh.EDU
Subject: [151647] FS: Shack cleanout items
Message-ID: <20030601.210939.3766.3.kc8aon@juno.com>

Still have the remaining items.

British military straight key marked, Key W.T. 8 Amp MKIII, good condition, made almost entirely of bakelite except for the screws and contacts. \$25 plus shipping

G5RV antenna, unused, made with Belden 14 gauge stranded brown insulated wire, center insulator has eyebolt for hanging as an inverted V. This is a full size G5RV, 102' long with 34' of 450 ohm windowline. No balun or connectors on end of balanced line. Made it up with new materials and never used it - put up a 40 meter extended double zepp instead ! \$25 plus shipping

Various used parts too numerous to list, (meters, pots, knobs, transformers, capacitors etc etc),
let me know what you need and I'll see if I have it. Prices will be cheap !

If interested, please contact me off the list & thanks for the BW

72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio <> Grid: EM88rl
SW 40+, HW-8, Yaesu FT-7, Homebrew 6V6 tube TX & Hallicrafters SW500 RX
QRP-L #2112, FPqrp #33, AR QRP #269
QRP'ers DEPEND ON SKILL - NOT RAW POWER !

The best thing to hit the internet in years - Juno SpeedBand!
Surf the web up to FIVE TIMES FASTER!
Only \$14.95/ month - visit www.juno.com to sign up today!
-To unsubscribe, mail to majordomo@fpqrp.com, msg: unsubscribe fpqrp-1 -

----- End forwarded message -----

The best thing to hit the internet in years - Juno SpeedBand!
Surf the web up to FIVE TIMES FASTER!
Only \$14.95/ month - visit www.juno.com to sign up today!

Date: Mon, 02 Jun 2003 01:34:37 +0000
From: Larry Cahoon <lejek@erols.com>
To: rcmcc@earthlink.net,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [151648] Re: NiMH AA cells mAh Tests and Maha C-401FS Charger
test/review
Message-ID: <5.1.0.14.0.20030602012208.02769960@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Since Ron didn't say let me point out that the charger reviewed in the link
he gave has one very good feature that makes it very worthwhile.

It charges each of the AA batteries in its own circuit.

This is not only great for those situations where you have something that
uses only three batteries, but it also significantly reduces the chance of
overcharging a battery.

I have lost a couple of the NiMH batteries due to venting - which I blamed
on differences in the conditions of the batteries I had. The thing is if
you have one battery that is slow taking a charge, or refuses to take a
charge then when it is charged in series with other good batteries you are
most likely to damage the good batteries due to overcharging. I think that
is what happened when mine vented on me.

One other thing it does is fuss at you when it thinks you have a bad battery.

I've had one of these since it first came out and it is always the one I go
to first.

Usual disclaimers apply.....

73 de Larry.....WD3P in MD
<http://www.wd3p.net/>

At 04:45 PM 6/1/2003 -0400, Ron McConnell wrote:

>Detailed tests and reviews from Imaging Resource,
>a digital camera web site,
>on several brands of NiMH AA cells
>and the Maha Maha C-401FS Charger -
>
>The Great Battery Shootout
> by Dave Etchells
>
> <http://www.imaging-resource.com/ACCS/BATTS/BATTS.HTM>
>
>Safe, Fast, Flexible: the Maha C-401FS
>Charger for AA NiMH cells
> by Dave Etchells
>
> <http://www.imaging-resource.com/ACCS/C401FS/C401A.HTM>
>
>Cheers, 73,
>
>Ron McConnell
>w2iol
>
> <http://home.earthlink.net/~rcmcc>

Date: Sun, 01 Jun 2003 22:01:13 -0400
From: Pete Burbank <plburbank@earthlink.net>
To: kf4yyd@adelphia.net,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [151649] Re: Manassas Hamfest
Message-ID: <5.2.0.9.0.20030601214127.00a532d0@Earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Tom ,
You got a bargain IMHO. I have 2 of them ...one for my field rig and one
for home.
A friend who is a good CW op and I were comparing notes on DSPs one day as
we had both tried many different brands and I confessed to him that I liked
the DSP-40
the best. I was astounded to hear him reply "Me too".
The noise blanker part does not seem to work very well but the CW filter does
work quite well.
In any event you got a pretty decent audio amp. A bit heavy on the current
for the

backpack types but otherwise a bargain.
73 Pete NV4V Ky

At 03:32 PM 6/1/2003, Tom wrote:

>Well, I went to the Manassas hamfest today and found nothing of what I was
>actually looking for i.e. an antenna handbook. However I did find and
>purchase one of the, no longer available because we want to sell you a
>phone, Radio Shack DSP 40 (digital noise reduction systems) for \$12. It
>seems to work as I have it hooked up to my SW-40 and I can hear the audio
>output from its built in speaker. Does anybody else on the list use one of
>these? I've never had demonstrated what a DSP unit does and I am not sure
>I'm even using it correctly. It has both SSB and CW wide medium and narrow
>bandwidth filters as well as a noise reduction mode with the same filter
>settings. Was it a good buy or a waste of money?? The only reason I picked
>it up was do to the past thread on DSP and I have decided to try and learn
>something about it.

>

>73, de Tom kf4yyd Fredericksburg Virginia

>

>SW-40+/ZM-2/E1 Cheapo Straight Key

>QRPARCI #10661, FPqrp #610, ARS #1322

>IDHACWID QRP Club #1

Date: Sun, 1 Jun 2003 22:24:59 -0400
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: <qrp-l@lehigh.edu>
Subject: [151650] UDPADTE: 'Tennna Dipper'
Message-ID: <000901c328ae\$4313d6a0\$dfccfea9@turbotoo>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang,

We're maybe 10 days away from starting to ship the
"Tenna Dipper" kits. If you haven't sent a check,
please do so soon. If your not sure you made the
first 100, or need my address, let me know and
I'll check. If I didn't say you didn't, you
probably did. I had to switch email programs

before I could comferm everyone. Long story...

For those of you who might be wondering what a "Tenna dipper" is, it's a gizmo for finding the resonant frequency of an antenna or used as an aid to pretune an ATU and covers 80 to 10M. Change one resistor and you can make it work on 160 too. Fits in an Altoids tin, along with 9v battery. Built in Morse output frequency counter. Sells for \$25.00.

If you didn't make the list for the first 100, many more of these will soon be available through a new QRP club in the midwest, as a fund riser for QRP events they will sponser.

Date: Sun, 1 Jun 2003 19:20:51 -0700 (PDT)
From: <genewill@ordata.com>
To: <qrp-1@lehigh.edu>
Subject: [151651] WTB: OHR-100A, 20m
Message-ID: <10893.207.189.187.10.1054520451.squirrel@apache.willamette.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

Looking for 20m OHR-100A. Must work 100%; a scratch or two is ok.

73 Gene N7YW

Date: Sun, 1 Jun 2003 19:32:35 -0700
From: Mark Schoonover <schoon@amgt.com>
To: "Low Power Amateur Radio Discussion (E-mail)" <qrp-1@Lehigh.EDU>
Subject: [151652] Solar Charging Question - Part 2
Message-ID: <BF889CEBEFD2D511B993009027F60ABE4F6DC4@AG-JASMINE-NT4>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Since the bands are flat, I decided to start working on my backpackable solar system. Instead of a solar charger, I went with a simple 15v zener between the battery and the panel. The specs for my solar panel is 22.5 volts DC unloaded - or atleast what ever load my Fluke puts on it! Max

current was 385 ma in direct, full Southern California sun....

I connected a 12v 2Ah SLA, that had an initial voltage of 11.98 volts. When first connected to the solar panel, the charge current was 350 ma, with a voltage of 13.8 - not bad! I monitored it for a couple of hours, and the current dropped to 240 ma, but the voltage jumped to 16.7 vdc!!! My question now is - why didn't the zener top out at 15 volts, and hold the output of the solar panel to 15 volts?? Was there not enough current being drawn by the battery for the zener to work properly?? I noticed in full sunlight, with no load, the voltage out of the panel was 22.5 volts, and on the other side of the zener it was 22. Is my assumption correct?? Should I get a different zener?? I'm going to add a second 2Ah battery in parallel with the first, would this provide enough load to not let the output of the panel go about 15??

When I pulled the charged battery off the panel, it's final voltage was 13.8 vdc.... A couple hours later, it dropped to 12.8 vdc. Is this normal?? Did I ruin my battery??

Thanks for any 'light' you can shed on my questions.

72

.mark

--{ Mark E Schoonover KA6WKE - AAR9WD/T
--{ IS Manager
--{ American Geotechnical
--{ <http://www.qsl.net/ka6wke>
--{ ka6wke@amsat.org

Penn's aunts made great apple pies at low prices. No one else in town could compete with the pie rates of Penn's aunts.

Date: Sun, 1 Jun 2003 20:06:12 -0700 (PDT)
From: Lloyd Lachow <llachow@yahoo.com>
To: a low-energy group <qrp-l@lehigh.edu>
Cc: "Li'l Piggies" <fpqrp-l@mpna.com>, rattray@gpfn.sk.ca
Subject: [151653] FOX K3ESE Log 1.0 1June03
Message-ID: <20030602030612.97410.qmail@web41004.mail.yahoo.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Well, it was better than I thought it would be...I tried working the band a couple of times before the event, with poor results, so I thought I'd be lucky to distribute, maybe, five pelts.

It was still fun, although the roaring, whooshing sound of that pack of hounds was eerily absent. The band seemed to wobble in and out the whole time. Someone would loom out of the mist, peak at S8 or S9, then taper off, or even suddenly be gone, perhaps to reappear, five or ten minutes later. Working Frank in Cuba at the end was a treat!

The good news, of course, is that it can only improve!

Here's my first stab at the log...please email any corrections direct. Thanks for playing!

2201	N0WX	559	MN	Mike	5W
2204	K4MF	559	FL	Gary	5W
2205	K0EVZ	599	ND	Doc	5W
2206	K7FD	559	OR	John	5W
2207	KR0U	339	CO	Tim	5W
2208	W0QE	549	CO	Larry	5W
2210	N1TP	559	FL	Tom	5W
2211	K5EOA	559	LA	Wayne	5W
2212	KB7WW	559	OR	Art	5W
2213	W0CML	579	CO	Jim	5W
2214	W5TB	559	TX	Doc	5W
2214	AF4LQ	559	KY	Mike	5W
2217	W5KDJ	559	TX	Wayne	500mW
2218	AA50	559	LA	Vern	5W
2219	AC7A	559	AZ	Tom	5W
2221	K5ZTY	559	TX	Bill	5W
2223	NK6A	339	CA	Don	5W
2224	N5YFC	559	LA	Wayne	5W
2225	KW4JS	559	TN	John	5W
2226	K4GT	559	GA	Jim	5W
2228	KK5NA	559	TX	Joe	5W
2229	K5TR	559	TX	Geo	5W
2236	VA6RF	549	AB	Earl	5W
2238	K5JHP/M	559	TX	Bill	5W
2239	W5YR	559	TX	George	5W
2240	N7MFB	559	WA	Bill	5W

2248	NF0R	559	MO	Dave	5W
2249	K5SR	559	TX	Dale	5W
2250	N0IT	559	MO	Dave	5W
2253	AA7EQ	559	AZ	Bob	5W
2301	N5ZE	559	TX	Lew	5W
2301	W5JAY	559	AR	Jay	1W
2305	W9UQB	559	AZ	Mike	5W
2307	AB9CA	559	AL	Dave	5W
2312	N1FN	559	CO	ET	5W
2319	W6AZ	559	CA	Ron	5W
2325	WA7LNW	559	NM	Jack	5W
2327	C02HA	539	Cuba	Frank	5W
2330	N00R	Jim	MN	FOX	
2330	K3ESE	Lloyd	MD	FOX	

=====

73, 72 es oo, Lloyd, K3ESE - Reisterstown, Maryland
 multiPIG+ #14 - K1 # 00379 - 20/40M Rock-Mites
 Hunk o' Wahr - Begali Magnetic Classic Paddles
 ARRL - ARS #1301 - QRParci #11147 - FISTS #8774
 FPQRP #476 - QRP-L #2415 - SOC #530
 Fun = Skill / Power !

 Do you Yahoo!?

Yahoo! Calendar - Free online calendar with sync to Outlook(TM).
<http://calendar.yahoo.com>

 Date: Sun, 1 Jun 2003 23:23:48 -0400
 From: "Lee Mairs" <lmairs@direcway.com>
 To: "qrpl" <qrpl@Lehigh.EDU>
 Subject: [151654] NorCal BLT Tuner
 Message-ID: <0a0601c328b6\$63ff23d0\$3b6d020a@boomer>
 MIME-Version: 1.0
 Content-Type: text/plain;
 charset="iso-8859-1"
 Content-Transfer-Encoding: 7bit

This weekend I put together the NorCal BLT Antenna Tuner that has bee in my project queue for about a year. I'm going to my island place next week, and

even tho I have a Murch tuner there, I really want something that is as small as my rigs!

I put in the unbalanced mods, and tried to test it feeding my Carolina Windham 160 - the only antenna I have up here in WV. On 20 meters being fed with my DSW II (eat your hearts out guys), the BLT seemed to work fine. I checked it with my MFJ antenna analyzer, and the null it found provided a low SWR and about 50 some ohms output impedance. Before I got too much into patting my back for another well done construction project, I dragged out my 2N2-40 and tried using it. Not a chance! The LED in the BLT was blinding thru all the range of the capacitors and the big toroid.

Anybody have any comments? More important, has any one been able to tune an unbalanced antenna with the BLT on 40 meters. I have an balanced N2CX shorty that I use on Oak Island, so I will have another test platform next week, but I'd like to take the BLT with confidence that I can get it working.

73 de Lee
km4yy/8

Date: Sun, 1 Jun 2003 20:54:57 -0700
From: "Doug Hendricks" <ki6ds@dospalos.org>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [151655] NorCal 10th Anniversary Report (Long)
Message-ID: <006801c328ba\$bdf05c20\$1fdbd7a8@DOUG>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

5:00 AM, the alarm goes off, and I jump out of bed like it was Christmas morning. I hustle into the bathroom, take a quick shower, shave, take my 7 daily pills, and off to load the birthday cake into the truck. (I loaded everything else last night). Then I head towards Livermore where I will meet Jim Cates and we will set up a swap table to celebrate 10 years of NorCal. It was a blast, several friends stopped by that I had not seen in years, and Jim and I had a fun time. We had 3 NorCal 40's, 2 Sierra's, and the original ST. Louis Tuner. Plus a 49er, NorCal Paddles, 38 Special and several copies of manuals and QRPP. Everyone kept trying to buy our stuff. We had to explain it was an exhibit and was not for sale. Jim did waver on a BLT, and sold it, grin.

We packed up and went to the California Burger for the meeting at 10:15. What a wonderful surprise. When we walked into the restaurant, the owner had a banner that was huge that said "NorCal QRP Club, 10th Anniversary". What a great guy. But the best part was seeing all the people. I'm doing this from memory, but here we go:

The original 5 people that met and decided to do the NorCal 40 were all there: Steve Cates, Jim Cates, Bob Smith, Wayne Burdick and Doug Hendricks. Everyone except Jim and Doug have aged, grin. One of the highlights was looking up and seeing Stan Cooper, who was the 5th guy to sign up that first day, walk in the door with Dave Meacham. What a thrill it is to see an old friend. I had not seen Stan in several years, and it was a pleasure to see him again. Thank you Dave Meacham for seeing that Stan got there. Vic Black, Bob Telefsen, Bob Okas, Dave Fifield, Paul Maciel, Courtland, Kit Blanke, Darrel Jones, Bob Lei, Samarai Sam, Steve "snort solder" Smith, Jerry Parker, Amanda Parker, Jeff and Mike Furman, James Bennett, Rufus, Terry from Sacramento, Dick and Ann Palmer from LA, Dwight Graham, and a whole bunch of others whose names I can't recall, but were there. We all had a piece of birthday cake, and then Dave Fifield presented Jim Cates and I with a Laser engraved plaque thanking us for 10 years of service to QRP. Dave made the plaques out of maple, and then had them engraved with the NorCal logo and our names and calls plus the thank you message. It was an honor to receive it, and both Jim and I wish to thank the members for their thoughtfulness. It has been our honor to have served you.

A special guest at the event was George Heron, N2APB of our sister club, the NJQRP. It is always a pleasure to see George, and today was even more special because we were able to finish some discussions that we started in March at Atlanticon. More about that later. We have some exciting things coming down the pike for QRP.

Thank you to everyone and I absolutely loved the meeting and seeing all the qrpers in person. It was especially nice to see so many old friends again.
72, Doug

Date: Sun, 1 Jun 2003 21:32:17 -0700
From: "Bill Jones" <kd7s@psnw.com>
To: <n2go@arrl.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151656] Re: Workman mobile whip?
Message-ID: <002801c328bf\$476d940\$9744f842@computer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Jim,

Judging from the model numbers, I suspect these are the Iron Horse antennas. I have a 20 meter version and it is quite nice. I mounted mine on the end of a six foot length of ABS plastic pipe. I used three radials as a guy wires. It sets up quickly and works great. I'm pleased with mine.

----- Original Message -----

From: <n2go@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, June 01, 2003 3:22 PM
Subject: Workman mobile whip?

> At the Rochester hamfest I noticed a cheap mobile antenna.
>
> http://www.wb0w.com/Mobile_Acc/IH_antennas.htm

Date: Sun, 1 Jun 2003 22:01:03 -0700
From: "Doug Hendricks" <ki6ds@dospalos.org>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [151657] 2 New NorCal Kits Announced
Message-ID: <009b01c328c3\$f9f172f0\$1fdbd7a8@DOUG>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Guys, we have two new kits to announce now that our 10th Anniversary party is over. We have first of all the popular NorCal Resistor kits. This consists of 2000 resistors in the following values. These are brand new resistors, cut in strips of 25 of each value from reels.

1, 2.2, 2.7, 3.3, 3.9, 4.7, 5.6, 6.8, 8.2, 10

12, 15, 18, 22, 27, 33, 39, 47, 56, 68, 82, 100

120, 150, 180, 220, 270, 330, 390, 470, 560, 680, 820, 1K

1.2K, 1.5K, 1.8K, 2.2K, 2.7K, 3.3K, 3.9K, 4.7K, 5.6K, 6.8K, 8.2K, 10K (50 of this popular value)

12K, 15K, 18K, 22K, 27K, 33K, 39K, 47K, 56K, 68K, 82K, 100K

120K, 150K, 180K, 220K, 270K, 330K, 390K, 470K, 560K, 680K, 820K, 1M

2.2M, 2.7M, 3.3M, 3.9M, 4.7M, 5.6M, 6.8M, 8.2M, 10M

The kit is shipped in a heavy 200# test cardboard box that is 3x3x5" and makes a perfect case to store the resistors in. You can add 3x5 cards as dividers, and finding that resistor you need is a snap. We ship them in order of value, so you won't even have to sort them. Just think, for only \$25, you will never have to worry about a missing resistor in a kit, or if you like to build Manhattan style, this is right down your alley. The cost of \$25 includes shipping and handling. To order, send a check or money order for \$25 made out to Jim Cates to:

Jim Cates

3241 Eastwood Rd.

Sacramento, CA 95821

Please enclose a self addressed mailing label as that helps Jim a lot. We are only doing 200 of these and they will go fast. Send your order in today. These kits are assembled and ready to ship immediately. No waiting.

The second kit is the NorCal Keyer. Chuck Olson, of Jackson Harbor Press has designed a keyer chip expressly for NorCal. It has Iambic A & B modes, beacon mode, paddle reverse, tune mode, 3 40 character memories, and the best feature of all, a pot to control the speed!!!!!!!!!!!!!! The cost of the kit is only \$15 shipped. It includes all board mounted parts, including a 5 volt regulator, keyer chip, caps and resistors, plus keying transistor and a NorCal quality board that measures 1" x 1.75" with a mounting hole. To order send a check or money order for \$15 made out to Doug Hendricks to:

Doug Hendricks

ATTN: NorCal Keyer Kit

862 Frank Ave.

Dos Palos, CA 93620

Please enclose a self addressed mailing label, as it speeds things up a bunch. These kits are packaged and ready to go. No waiting. 72, Doug, KI6DS

Date: Sun, 1 Jun 2003 22:10:47 -0700
From: "Doug Hendricks" <ki6ds@dospalos.org>
To: "qrp-1" <qrp-1@lehigh.edu>
Subject: [151658] Re: I saw the light: Getting religion on SMT
Message-ID: <009f01c328c5\$55b54fc0\$1fdbd7a8@DOUG>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Nick, that was a marvelous post. Thank you for sharing that with us. Guys this is what qrp-1 is like in its finest form. Thank you Mr. Kennedy, I applaud your efforts and work. Keep it coming. 72, Doug

Date: Mon, 02 Jun 2003 01:29:25 -0400
From: Pete Burbank <plburbank@earthlink.net>
To: qrp-1@lehigh.edu
Subject: [151659] DSPs
Message-ID: <5.2.0.9.0.20030602012431.00a42ac0@Earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

For those curious.
Lots of freebie info available on the SGC website .
(hope this is right :-)
<http://sgcworld.com>
Pete NV4V

Date: Mon, 2 Jun 2003 02:02:33 -0400
From: "Kevin M., KC8SFJ" <adverseyaw@twmi.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151660] FS: Shack Cleaning
Message-ID: <003301c328cc\$8f5cd110\$66dc0a0a@magnus>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang,
I still have a Vibroplex Code Mite for sale.
Code Mite \$45.00 + shipping.

Daiwa CN-101L 1.8~30MHz cross needle Power/SWR meter. New in box.
Comes with manual and DC plug for backlight.
Daiwa CN-101L \$90 +shipping.

If you buy them both I will throw in the shipping. So both would be
\$135.00 shipped to your abode.
Thanks for the BW.

73,
Kevin, KC8SFJ

```
|=====|  
| QRP-L      #2366 - member since October/2001 |  
| QRP-ARCI   #11248 - member since May/2002    |  
| FISTS      #9293 - member since July/2002     |  
| HR          - member since September/1965    |  
|=====|
```

AdverseYaw@twmi.rr.com <-- My email address
Quote of the day--

A fanatic is one who can't change his mind and won't change the
subject.
- Winston Churchill

Date: Mon, 2 Jun 2003 06:20:40 -0400
From: "John Huffman" <hjohnc@core.com>
To: <adventureradiosociety-announcements@mailman.qth.net>,

"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151661] Spartan Sprint Tonight!
Message-ID: <005901c328f0\$9ed61c40\$b2c859cf@jhuffman1t>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Tonight is the June Adventure Radio Society Spartan Sprint. Two hours
starting at 9 pm Eastern, 8 pm Central, 7 pm Mountain, 6 pm Pacific.

Exchange - Report, State (Province), Power as in: 559 MI 5W

Enjoy, and get your logs in by noon Wednesday. Results should be posted by
Thursday but may be late as I'll be on the road.

Fill out the Autolog at www.natworld.com/ars/ss_log.html

73 de NA8M
John
Contest Manager
Adventure Radio Society

Date: Mon, 02 Jun 2003 07:41:05 -0400
From: "John O. Newell" <jnewell@attbi.com>
To: lejek@erols.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [151662] Re: NiMH AA cells mAh Tests and Maha C-401FS Chargertest/review
Message-ID: <3EDB37D1.EAEAB059@attbi.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

> I've had one of these since it first came out and it is always the one I go
> to first.

Agreed, all my other AA chargers are pretty much unused now.

72/73
John Newell
KB1FPM

Date: Mon, 2 Jun 2003 08:42:13 -0400
From: "Dean-NR2V/4" <nr2v@northnet.org>
To: <qrp-1@lehigh.edu>
Subject: [151663] Thanks all who replied.Re; Stripping 4 conductor phone line...
Message-ID: <00b201c32904\$64499de0\$03fea8c0@deanlaptop>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Had many good suggestions, Tnx all.
Gonna use the "right tool for the right job", and order 1000 feet of 18
ga stranded and cut it to radial lengths...strippin that stuff is a
pain/
72 Dean

Date: Mon, 02 Jun 2003 05:55:16 -0700
From: John Kuklewicz N7ZN <kuk1@cybrquest.com>
To: schoon@amgt.com
Cc: qrp-1@Lehigh.EDU
Subject: [151664] Re: Solar Charging Question - Part 2
Message-ID: <3EDB4933.5030403@cybrquest.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Mark, Some comments in-line...

Mark Schoonover wrote:

> Since the bands are flat, I decided to start working on my backpackable
> solar system. Instead of a solar charger, I went with a simple 15v zener
> between the battery and the panel. ..snip...

Did you place the zener in series with the panel and battery?
Zeners act like two diodes - in one direction they are
ordinary diodes, in the other a well defined breakdown occurs
that allows them to serve as voltage regulators.

If you want a Zener to limit the voltage across your battery,
the zener should be connected in parallel with the battery
and panel.

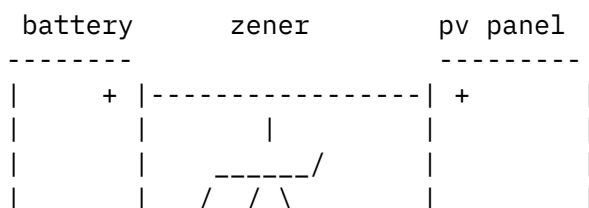
Connect the band of the zener to the positive terminal of the
battery and panel. (See my crude diagram below)

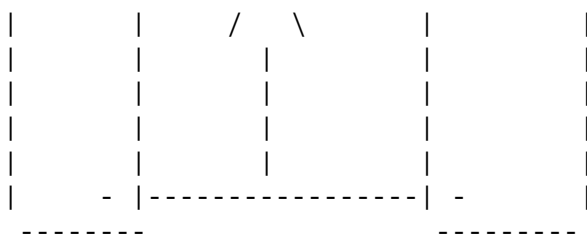
>

> When

> My question

You want a hookup like this:





Not sure how well this will work as to the long term health of your batteries. 15V is a pretty high float voltage. I am not an expert on SLA batteries (more familiar with the typical flooded type) but my understanding is that you should never let them get into a state where the cells gas.

Unless batteries are of similar condition (age and history) it is usually not a good idea to parallel them. The 'weaker' battery will get charged first, allowing the terminal voltage to rise prematurely as far as the good battery is concerned. This tends to overcharge the good battery.

If the batteries are in parallel under discharge, the 'weaker' battery will discharge first and pull the terminal voltage down prematurely.

>

> When I pulled the charged battery off the panel, it's final voltage was 13.8
> vdc.... A couple hours later, it dropped to 12.8 vdc. Is this normal?? Did I
> ruin my battery??

This is normal. While charging, 13.8VDC is a good value for a battery under float conditions. A fully charged lead acid battery will have a final voltage of 12.75-12.85 volts. (temperature sensitive) 12.8V under no load some time after being charged indicates a battery that is likely fully charged.

Any damage you -may- have done will be reflected in reduced Amp-hr capacity. Something that cannot be determined without a load test.

>

> Thanks for any 'light' you can shed on my questions.

>

> 72

>

> .mark

>

> --{ Mark E Schoonover KA6WKE - AAR9WD/T

> --{ IS Manager

> --{ American Geotechnical
> --{ <http://www.qsl.net/ka6wke>
> --{ ka6wke@amsat.org
>
> ..snip

vy 72/73

John N7ZN

Date: Mon, 02 Jun 2003 09:06:06 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-1@lehigh.edu
Subject: [151665] Re: I saw the light: Getting religion on SMT
Message-ID: <5.1.1.6.1.20030602084748.00a50da0@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

>But the
>artwork isn't the hard part, it's how to transfer it to the board. Iron on
>transfer? Photo-resist process? That homemade mucilage & paper approach by
>WD8CIV looks interesting too. Stay tuned. Or tell me what to use.

Nick,

Thanks for the reference! That homemade transfer paper -does- work for SMT
- I've used it several times to make boards for Atmel AT90S8515 controllers
(which come in a 44-lead TQFP (square) package with 0.0315 in lead spacing)
and DDS parts (TSSOP, 0.0256 in spacing). But I've had to scrap several
boards along the way due to quality-control issues. It's one of those
things where you might want to practice with larger geometry parts until
you're happy with the results before tackling the fine-pitch stuff.

The worst problem I had doing the boards with SMT parts (hybrid boards -
most components were through-hole) was shorted traces. If the mucilage was
too thin in spots on the paper, then the paper wouldn't release cleanly
from the board and some paper fibers would remain. That would make for
incomplete etching between the fine traces. And scraping or rubbing the
fibers off could break the toner resist.

Another concern I have, although I haven't tried it myself yet, is making a
2-sided board. With SMT you don't have as many trace routing options, so
you're almost guaranteed to need at least a 2-layer board. That'll be

tricky using just about any home PCB process. I think I'd go to one of the board prototyping houses to have professional boards done for an all-SMT design - and I'm nototriously cheap.

Dave

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Mon, 2 Jun 2003 09:09:15 -0500 (CDT)
From: Dale Botkin <dale@botkin.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [151666] RE: 4W3DX and receivers
Message-ID: <Pine.LNX.4.33.0306020859350.1352-100000@madmax.botkin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 1 Jun 2003, Doc K0EVZ wrote:

> Let me chime in re the OHR500 = it is a fabulous rig for QRP. I never
> cease to be amazed by the ultra-quiet, sensitive receiver. Signals seem to
> just leap up from a whisper-quiet background.

Just out of curiosity, has anyone been able to compare the OHR400 and the 500 side by side? I have a 400 I picked up used. The front panel is pretty ugly as a result of having a KC-2 installed a little crooked. Because of that and the fact that I'm not using it much any more, I'm debating making a completely new front panel or trading off the rig for something else - or a complete re-package to make it more travel friendly. I don't think it will fit into an Altoids tin. ;)

I don't use it at home at the moment since I switched to the TS-930 so I can run PSK31 when I feel like it. I haven't put those two on a switch to compare them, but what I remember of using the 400 tells me the variable width IF filter on the '930 does a world of good in crowded conditions.

I pretty much suck at being able to copy one signal when there are others present. The signals I'm not working are too much of a distraction, and I can't concentrate on the one I'm working - it's really annoying, I can usually "tune out" noise (TV, kids, XYL, etc) but not once the 'phones go on.

72,
Dale - N0XAS

--

It's a thankless job, but I've got a lot of Karma to burn off.
Get a PicoKeyer: <http://www.hamgadgets.com>

Date: Mon, 02 Jun 2003 22:40:12 -0400
From: Ed Lawson <k1vp@grizzly.com>
To: dale@botkin.org
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [151667] Re: 4W3DX and receivers
Message-ID: <3EDC0A8C.801@grizzly.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

Dale Botkin wrote:

>Just out of curiosity, has anyone been able to compare the OHR400 and the
>500 side by side?

>

Some say the 400 has a cleaner sound than the 500 and a sharper filter
than the 500, but I think they are very, very similar as they should be
since they are very, very similar in terms of circuits if I remember the
schematics correctly. I have used both 400s and 500s and the filter was
the only thing I remember as noticeably different.

Ed Lawson
K1VP

Date: Mon, 02 Jun 2003 09:49:35 -0500
From: Ken Hopper N9VV <n9vv@wideopenwest.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [151668] [OT] how many achieved QRP DXCC ?
Message-ID: <3EDB63FF.6030606@wideopenwest.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

I have been unable to find a tally of how many DXCC certificates have been
issued or in particular how many QRP DXCC certificates and endorsements have
been achieved. Anyone have a clue?

TU de ken n9vv

<n9vv@arrl.net>

Date: Mon, 2 Jun 2003 07:47:07 -0700
From: "Doug Hendricks" <ki6ds@dph.dpol.net>
To: <qrp-1@Lehigh.EDU>
Subject: [151669] Important announcement for QRP
Message-ID: <036501c32915\$d84a35e0\$4a0b0d0a@dph.dpol.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

There will be an important announcement concerning QRP from the New Jersey and NorCal QRP Clubs this Wednesday on QRP-L. Be sure to check the posting on Wednesday. 72, Doug, KI6DS

Date: Mon, 2 Jun 2003 11:36:02 -0400
From: "cal.jsi" <cal.jsi@verizon.net>
To: "QRP-L" <qrp-1@Lehigh.edu>
Subject: [151670] Re: Solar Charging Question - Part 2
Message-ID: <000301c3291c\$acc4af20\$fc53fea9@Sharon>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Mark, John and all,

I'd suggest that you also add a standard 1 Ampere rectifier diode between the 15 Volt Zener diode and the battery. You would connect the cathode of the diode to the positive terminal of the battery, and the anode to the junction of the solar panel positive output and the cathode of the Zener.

The 15 Volts available with the Zener diode limiter is a bit high for 12 Volt gel-cell battery charging. The forward voltage drop across the rectifier diode will reduce the maximum voltage applied to the battery to about 14.4 Volts, which is probably close to what it should be. You could also include a second rectifier diode that you can switch in and out of the circuit, or short out, to reduce the voltage applied to the battery to 13.8 Volts, which is a pretty decent float voltage for the battery.

It sounds as if the maximum available charging current is about right for a gentle charge of your 2AH battery.

72/73

Cal K4JSI

Date: Mon, 2 Jun 2003 09:37:30 -0600
From: William R Colbert <w5xe@juno.com>
To: qrp-l@lehigh.edu
Subject: [151671] Re: Manassas Hamfest
Message-ID: <20030602.095048.-277573.5.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I also have two of the DSP-40's and have found them very useful. In particular when using my QRP+ which is lacking in audio as well as no noise blanking or limiting of any type. Same with the TenTec Century 21 and Triton 2 series (neither have blankers and the Triton came with no cw filter). Well worth the money I think.

73

Ray

"Texas can make it without the United States,
but the United States can't make it without Texas."

Sam Houston, Governor

Ray Colbert, W5XE, 00TC#3618, SOWP#1064M

ARCI-5784 NCT2R FP-111 El Paso, (FAR WEST) TEXAS

Date: Mon, 02 Jun 2003 09:10:42 -0700
From: Jerry Haigwood <w5jh@swlink.net>
To: QRP-L Reflector <qrp-l@lehigh.edu>
Subject: [151672] Camping Trip - Radio Demonstration
Message-ID: <3EDB7702.924C245C@swlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello All,

This coming Wednesday, June 4, through Saturday morning, June 7, my church will be running a "high adventure" camp for 70 young men ages 14-18. This high adventure camp will consist of several activities

including: kayaking, scuba diving, pistol shooting, rifle shooting, shotgun shooting, repelling, rock climbing, orienteering (using compass not GPS), primitive skills (fire starting, rope tying, etc.), archery, and several other activities I can't remember at the moment. One of the less adventuresome activities will be ham radio. I will be setting up a station at the camp for demonstrations and for emergency communications in case any young men or adult leaders should become ill or injured.

The camp will be located on a private ranch, surrounded by National Forest land. This ranch is approximately 15 miles Southwest of Young, Arizona - out of cell phone range. The only electricity on the ranch is a 10,000 watt diesel generator which may or may not work :-). The elevation is approximately 5,000 ft. Fifteen miles to the North is the Mogollon Rim at about 7000-7800 ft elevation. To the South the elevation drops off and then more mountains. To the West are even more mountains. To the East 30-40 miles are the White Mountains with peaks above 10,000 ft. I will be in a large diameter hole. My station will consist of an Icom 706MKIIG. The antenna will be an 88 ft EDZ center fed with 450 Ohm window line to a home brew 1:1 current balun and a LDG auto tuner. The antenna will be supported by my 27 ft pole in the center and the ends will be as high as I can find supports for them. The power supply will be a solar charged battery. I plan to operate on 75-10 meters CW/SSB, and 2 meter FM (assuming the bands are in reasonable shape). While on CW, I will be hanging out around the QRP watering holes running 5 watts. On 40 meter SSB, I will hang out around 7.228 MHz. On 20 meters you will find me near 14.250 MHz. On 17 meters look for me around 18.155 MHz. My hours of operation will be somewhat sporadic but I should be on for several hours each day. I will be using my call - W5JH. I am looking forward to demonstrating ham radio to these young men.

73, Jerry W5JH

Date: Mon, 02 Jun 2003 16:14:27 +0100
From: Chuck Adams <k7qo@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [151673] Maha Energy Corp. thread
Message-ID: <5.2.1.1.0.20030602160808.00b648c8@smtp.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Gang,

Let me throw in a plug for the above company. I have been using the model MH-C204F for over two years, so it may be the older model

of theirs and no longer available.

This charger must do them in series as it requires two AA or AAAs to work and there are 4 slots so that you can do two pair at once.

But the thing that I like most is that it uses 12VDC at 0.5A for input. So if you want to take the thing in the car then you find a cigarette lighter plug with the matching plug for the Maha and you are in business on the road.

So at Tuthill this year I guess the newer model is on the top of the list. For those of you that have been going to Tuthill regularly the first stop for some of us is the battery lady in the south east corner of the building.

I haven't gotten to the review article yet so I have to do that some time today.

But I was going through the chargers I have and taking current, voltage, and temperature readings over time to see how each does it job.

See ya at Tuthill,

Chuck Adams K7QO k7qo@earthlink.net
<http://www.qsl.net/k7qo> CP-60

Date: Tue, 03 Jun 2003 00:44:12 -0400
From: Ed Lawson <k1vp@grizzly.com>
To: ki6ds@dph.dpol.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [151674] Re: Important announcement for QRP
Message-ID: <3EDC279C.2030101@grizzly.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Doug Hendricks wrote:

> Be sure to check the posting
> on Wednesday.
>
>

Are we to wait on pins and needles till 0000UTC or will we have to wait until the morning and lose sleep for another night?

Ed Lawson

K1VP

Date: Mon, 2 Jun 2003 12:23:46 -0500
From: "Boulineau, Lee" <lee.boulineau@attws.com>
To: <ki6ds@dph.dpol.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151675] RE: Important announcement for QRP
Message-ID: <90B09553A615CE4192A646D8CFA67DA8428ED8@TX-MSG05-
CCC.wireless.attws.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
content-class: urn:content-classes:message

Great - I already have DX-induced insomnia, Homebrew-induced insomnia, =
Kit-builders insomnia, Rag-chewers insomnia, Boat-Anchor insomnia, =
RTTY-induced insomnia, PSK31-induced insomnia, CW-induced =
insomnia.....and now an important announcement from QRP-L =
insomnia!!!!

Thanks Doug !!!!!!! ;-)

73 de N4MVL Lee

-----Original Message-----
From: Doug Hendricks [mailto:ki6ds@dph.dpol.net]
Sent: Monday, June 02, 2003 10:47 AM
To: Low Power Amateur Radio Discussion
Subject: Important announcement for QRP

There will be an important announcement concerning QRP from the New =
Jersey
and NorCal QRP Clubs this Wednesday on QRP-L. Be sure to check the =
posting
on Wednesday. 72, Doug, KI6DS

Date: Mon, 2 Jun 2003 18:31:26 +0100
From: "Leon Heller" <leon_heller@hotmail.com>

To: "Low Power" <qrp-l@Lehigh.EDU>
Subject: [151676] HF mixer module
Message-ID: <Law15-DAV58FY6mTBb50002aff2@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

I've just designed a simple HF mixer module PCB:

http://www.geocities.com/leon_heller/mixer.html

I'll be designing an IF amplifier module to go with it, which could be followed by my direct conversion Rx module as a high-performance product detector.

All modules are 2" square.

73, Leon

--

Leon Heller, G1HSM
leon_heller@hotmail.com
http://www.geocities.com/leon_heller

Date: Mon, 2 Jun 2003 12:04:07 -0600
From: "John_Evans" <jaevans@mail.codenet.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>,
 <lee.boulineau@attws.com>
Subject: [151677] RE: Important announcement for QRP
Message-ID: <200306021204.AA30933288@mail.codenet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

dang,

that is a lot of insomnias - now I know how to get more than 24 hours in a day -
I just need more insomnias :)

72 - john - n0hj

----- Original Message -----

From: "Boulineau, Lee" <lee.boulineau@attws.com>
Reply-To: lee.boulineau@attws.com
Date: Mon, 2 Jun 2003 12:23:46 -0500

>Great - I already have DX-induced insomnia, Homebrew-induced insomnia, Kit-

builders insomnia, Rag-chewers insomnia, Boat-Anchor insomnia, RTTY-induced insomnia, PSK31-induced insomnia, CW-induced insomnia.....and now an important announcement from QRP-L insomnia!!!!

>

>Thanks Doug !!!!!!! ;-)

>

>73 de N4MVL Lee

Date: Mon, 2 Jun 2003 13:49:18 -0400

From: "Steven Weber" <kd1jv@moose.ncia.net>

To: <WD8CIV@worldnet.att.net>,

"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [151678] Re: I saw the light: Getting religion on SMT

Message-ID: <00a901c32931\$bda74c20\$dfccfea9@turbotoo>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

> Another concern I have, although I haven't tried
> it myself yet, is making a
> 2-sided board. With SMT you don't have as many
> trace routing options, so
> you're almost guaranteed to need at least a
> 2-layer board. That'll be
> tricky using just about any home PCB process. I
> think I'd go to one of the
> board prototyping houses to have professional
> boards done for an all-SMT
> design - and I'm nototriously cheap.

I've had good luck using PnP Blue transfer film for SMT boards, including TSSOP chips. At \$50 for 40 sheets, it's a little expensive, but you can cut the sheets up and only use what you need for a board by double sided taping it to a piece of paper which you have made a test print on, so you know where to place the film. You also need a laser printer.

As for making double sided boards, it's a little tricky, but can be done. I find the best method is to first transfer and etch the "busy" side of the board. The side with the most stuff on it. Then drill out all the holes. Not only does this give

you plenty of holes to line up the second side film too, it makes sure you don't lift pads if you drill after the second side has been etched. Only down side is you have to plug all the holes so the etchant don't leak through. I use wax.

All in all though, I try to avoid making double sided boards and use wire jumpers instead of tracks. This assumes you can put all the parts on one side though and mostly just have to jumper power connections around.

72,
Steve, KD1JV
White mountains of New Hampshire
"melt Solder"
www.qsl.net/kd1jv/

Date: Mon, 02 Jun 2003 14:14:12 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [151679] Re: I saw the light: Getting religion on SMT
Message-ID: <5.1.1.6.1.20030602140738.00a72180@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 01:49 PM 6/2/2003 -0400, you wrote:
> > Another concern I have, although I haven't tried
> it myself yet, is making a
> > 2-sided board. With SMT you don't have as many
> trace routing options, so
> > you're almost guaranteed to need at least a
> 2-layer board. That'll be
> > tricky using just about any home PCB process. I
> think I'd go to one of the
> > board prototyping houses to have professional
> boards done for an all-SMT
> > design - and I'm nototriously cheap.
>
> I've had good luck using PnP Blue transfer film
> for SMT boards, including TSSOP chips. At \$50 for
> 40 sheets, it's a little expensive, but you can
> cut the sheets up and only use what you need for a
> board by double sided taping it to a piece of
> paper which you have made a test print on, so you

>know where to place the film. You also need a
>laser printer.
>
>As for making double sided boards, it's a little
>tricky, but can be done. I find the best method is
>to first transfer and etch the "busy" side of the
>board. The side with the most stuff on it. Then
>drill out all the holes. Not only does this give
>you plenty of holes to line up the second side
>film too, it makes sure you don't lift pads if you
>drill after the second side has been etched. Only
>down side is you have to plug all the holes so the
>etchant don't leak through. I use wax.
>
>All in all though, I try to avoid making double
>sided boards and use wire jumpers instead of
>tracks. This assumes you can put all the parts on
>one side though and mostly just have to jumper
>power connections around.

Steve,

A method I've been meaning to try ("Real Soon Now") is to place all the traces on the component side and leave the other side a solid copper plane for ground. Ground nodes in the circuit would be drilled through and connected with wires soldered on both sides.

It seems like it would save a lot of routing woes by knowing you can always reach a ground. Also, there are fewer holes to drill. Power and signal still need to be routed, and components would be mostly surface mounted whether they like it or not. But for most of the low power circuits I build, the leads usually don't need to extend through the board anyway.

It'd be sort of like Manhattan construction, but with tracks as well as pads laid "on top of" the ground plane.

Dave

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Mon, 2 Jun 2003 11:18:29 -0700
From: Mark Schoonover <schoon@amgt.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [151680] RE: Solar Charging Question - Part 2
Message-ID: <BF889CEBEFD2D511B993009027F60ABE4F6DD0@AG-JASMINE-NT4>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

There have been many replies to this thread, so instead of individual responses, I decided to respond in masse!

Yes, I goofed - I put the zener in series with the battery and the panel. Don't know why I did that, guess it was the solder fumes! :) A couple people pointed out that I would need a 5 watt zener in order to dissipate 300 ma at 15 volts. I'm not totally convinced this is correct, because the zener will not be dropping 15 volts across, it will be more like 7 if the battery is almost charged. At the 300 ma level, the output of the panel drops to around 14 volts, but only rises to 17 or so when the battery is charged. So, 2 volts by 300 ma equals 600 mw... The way I understand zeners to work is that they will hold the voltage to whatever they are rated at, while dumping the rest to ground at the current that's running to the load.

On the side of my battery it states the charge current for float and cyclic use. Between 13 to 13.8 volts, there is no current limit. From 14 to 15.5 volts, the current has to be limited to no more than 500 ma. My panel will not put out that much current, so my only concern is with the overvoltage that happened. Yes, it's a pretty old battery, atleast 3 years old that I got used. So, it may have seen better days.

I decided against paralleling the batteries - I'll charge them one at a time! Makes it easier anyways....

Thanks again for all the input!

72

--{ Mark E Schoonover KA6WKE - AAR9WD/T
--{ IS Manager
--{ American Geotechnical
--{ <http://www.qsl.net/ka6wke>
--{ ka6wke@amsat.org

Date: Mon, 02 Jun 2003 15:05:05 -0400
From: Ed Tanton <n4xy@earthlink.net>
To: schoon@amgt.com,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [151681] RE: Solar Charging Question - Part 2
Message-ID: <5.2.0.9.2.20030602144832.034c9ea8@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Actually that's close to how they work Mark, and you are correct that it isn't 5W. Zeners "drop" one of two voltages, depending on which direction they are connected. Either the standard 0.6V/whatever of a forward-conducting silicon junction; or the difference between the input voltage and the zener voltage. Period. So, your diode would be required to dissipate (at 0.3A) either 0.18W or (for a 15V zener at [say a worst case of] 20V) 1.5W. If you use the worst case you mentioned of 17V, it becomes the 0.6W you mentioned.

Charging the batteries one at a time would be the better idea. Charging them in SERIES is not so bad either. But in parallel, somebody's going to hog the coulombs.

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

"He that gives up a little liberty to gain
temporary security will lose both and
deserve neither".
--Benjamin Franklin

"Suppose you were an idiot ...
and suppose you were a member of
Congress... but I repeat myself."
--Mark Twain

Date: Mon, 2 Jun 2003 11:16:46 -0700
From: "k7prz" <k7prz88@prodigy.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [151682] Spam & qrp list
Message-ID: <000101c3293a\$388777f0\$7b00558b@p3>

With spam being such a problem lately, one has to watch what he or she puts in the subject line. Using Outlook Express and the message rules program, the posts having the word "religion" in the subject line get dumped into my spam folder to look at later. Other words are loan, lengthen, money, Nigeria, etc., and the often seen 3 and 4 letter words that I don't need to mention.

Just a thought when composing your subject line.

Dave
k7prz

Date: Mon, 02 Jun 2003 19:18:10 +0000
From: "Alan Fryer" <N3BJ@hotmail.com>
To: qrp-1@lehigh.edu
Subject: [151683] FS: Binaural RX, 100W Amp
Message-ID: <Law9-0E16xVY60mJWEs000298dc@hotmail.com>

For sale:

KK7B Binaural RX for 40M, works fine, nicely done in aluminum case. This is the Kanga offering with VFO and receiver boards. You've got to hear this to believe it. Allows the "on board" processor to sort things out as signals pass from one side of the head to the other thru zero beat.

\$105 shipped

Communication Concepts 100W + amp with output filters for 80, 40,20,15,10M. Amp is mounted on a heatsink and the filters are assembled, but not incorporated with the amp. It works and is a great addition to an 817, K1 or K2 or any qrp rig. Requires under 5W for 100W out and has the T/R relay on board.

\$85 shipped

Alan, N3BJ

Bent Mountain, VA

Date: Mon, 2 Jun 2003 14:18:42 -0500
From: "Jim N0UR" <n0ur@attbi.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [151684] FOX log N0UR
Message-ID: <000701c3293b\$c81a9360\$6a202942@ce1.client2.attbi.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 8bit

First, thanks to all who showed up, and those who hung in there. I apologize for those who were calling me up 1 kc, and I was not hearing you. I was only listening up 1 kc during the first few minutes, and when no pile up really developed, I slid down and worked simplex. Not very good condx, but I've heard worse. Here is a first draft of my log.

2202	AC7A	579	579	AZ	TOM	5W	*
2202	K4ADI	579	579	SC	FRANK	5W	
2203	K3PH	559	559	PA	BOB	5W	
2204	AA4MF	579	579	FL	GARY	5W	
2205	K2VCO	559	569	CA	VIC	5W	
2205	AF4PP	559	579	GA	CHUCK	5W	
2206	W5YR	559	559	TX	GEORGE	5W	
2206	K5DI	559	559	NM	KARL	5W	
2207	K5EOA	559	559	LA	WAYNE	5W	
2208	N1TP	579	559	FL	TOM	5W	
2209	WJ9B	559	559	NC	WILL	5W	
2210	W6ABC	559	559	PA	JACK	5W	
2211	AA7EQ	559	559	AZ	BOB	5W	
2212	W5TB	559	559	TX	DOC	5W	
2213	K7FD	559	559	OR	JOHN	5W	
2214	N3XRV	559	559	PA	CHRIS	5W	
2215	AA50	559	559	LA	VERN	5W	
2218	K1THP	559	559	DAVE	5W		
2220	N1IX	559	559	NH	DAVE	5W	
2221	K4GT	579	599	GA	JIM	5W	
2223	KB7WW	559	559	OR	ART	5W	
2224	AD6JV	579	559	VA	BILL	5W	
2226	K2ZN	579	559	NY	AL	5W	
2226	KF2P	559	559	NY	NICK	4W	
2227	NK6A	559	599	CA	DON	5W	
2228	K5TR	559	559	TX	GEO	5W	
2229	K5ZTY	559	559	TX	BILL	5W	
2230	W7ILW	579	559	AZ	WALT	5W	

2231 W7KXB 579 589 AZ BILL 5W
 2234 N7XY 229 559 WA BOB 5W
 2237 WK6I 579 559 CA JEFF 5W
 2239 K1HJ 559 559 MA STEVE 1W
 2239 VA6RF 559 559 AB EARL 5W *
 2242 KK5NA 559 559 TX JOE 5W
 2243 N5QQ 559 559 GA RON 5W
 2244 W5KDJ 559 559 TX WAYNE 700MW
 2247 K5JHP/M 559 559 TX BILL 5W
 2248 K5SR 559 559 TX DALE 5W
 2248 NN5E 559 559 TX VERN 5W
 2249 AB9CA 559 559 AL DAVE 5W
 2250 N5YFC 559 559 LA WAYNE 5W
 2255 W2AGN 559 599 NJ JOHN 5W
 2257 W5JAY 559 559 AR JAY 1W
 2301 W9UQB 559 559 AZ MIKE 5W
 2302 K2PQ 559 559 NJ FRANK 5W
 2305 W8VJW 559 559 MI JOHN 5W
 2307 KG6WP 559 559 CA WARD 5W
 2310 C02HA 559 559 CUBA FRANK 5W *
 2312 KX1E 559 559 ME BOB 5W
 2312 N3BJ 579 579 VA ALAN 5W
 2321 K0EVZ 579 579 ND DOC 5W
 2323 W6AZ 559 559 CA RON 5W
 2325 WD0K 559 559 MN DICK 5W
 2327 N5ZE 559 559 TX LEW 5W
 2328 WA7LNW 559 559 NM JACK 5W
 2329 AG4PJ 559 599 AL DAVE 5W
 2330 K3ESE FOX
 2330 N0UR FOX

 Date: Mon, 2 Jun 2003 12:22:06 -0700 (PDT)
 From: Bob cutter <ki0g@yahoo.com>
 To: qrp-1@lehigh.edu
 Subject: [151685] QRP+ FS
 Message-ID: <20030602192206.90316.qmail@web40712.mail.yahoo.com>
 MIME-Version: 1.0
 Content-Type: text/plain; charset=us-ascii

One owner. Looks and works great. Includes mic,
 manual and Rascal PSK interface. \$260.00, I ship 48.

72, Bob KI0G

Do you Yahoo!?

Yahoo! Calendar - Free online calendar with sync to Outlook(TM).

<http://calendar.yahoo.com>

Date: Mon, 2 Jun 2003 12:14:42 -0700

From: "Doug Hendricks" <ki6ds@dph.dpol.net>

To: <qrp-l@Lehigh.EDU>

Subject: [151686] Re: Spam

Message-ID: <005f01c3293b\$38cbde80\$4a0b0d0a@dph.dpol.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

So you wouldn't get to read my posting about "Ham radio is not a religion.
Use your money to buy wire to lengthen your antenna, so you can use that rig
that is on loan from your buddy to work Nigeria?" Gee you are missing out,
grin. Easy guys, I couldn't resist. 72, Doug

End of QRP-L Digest 2939

